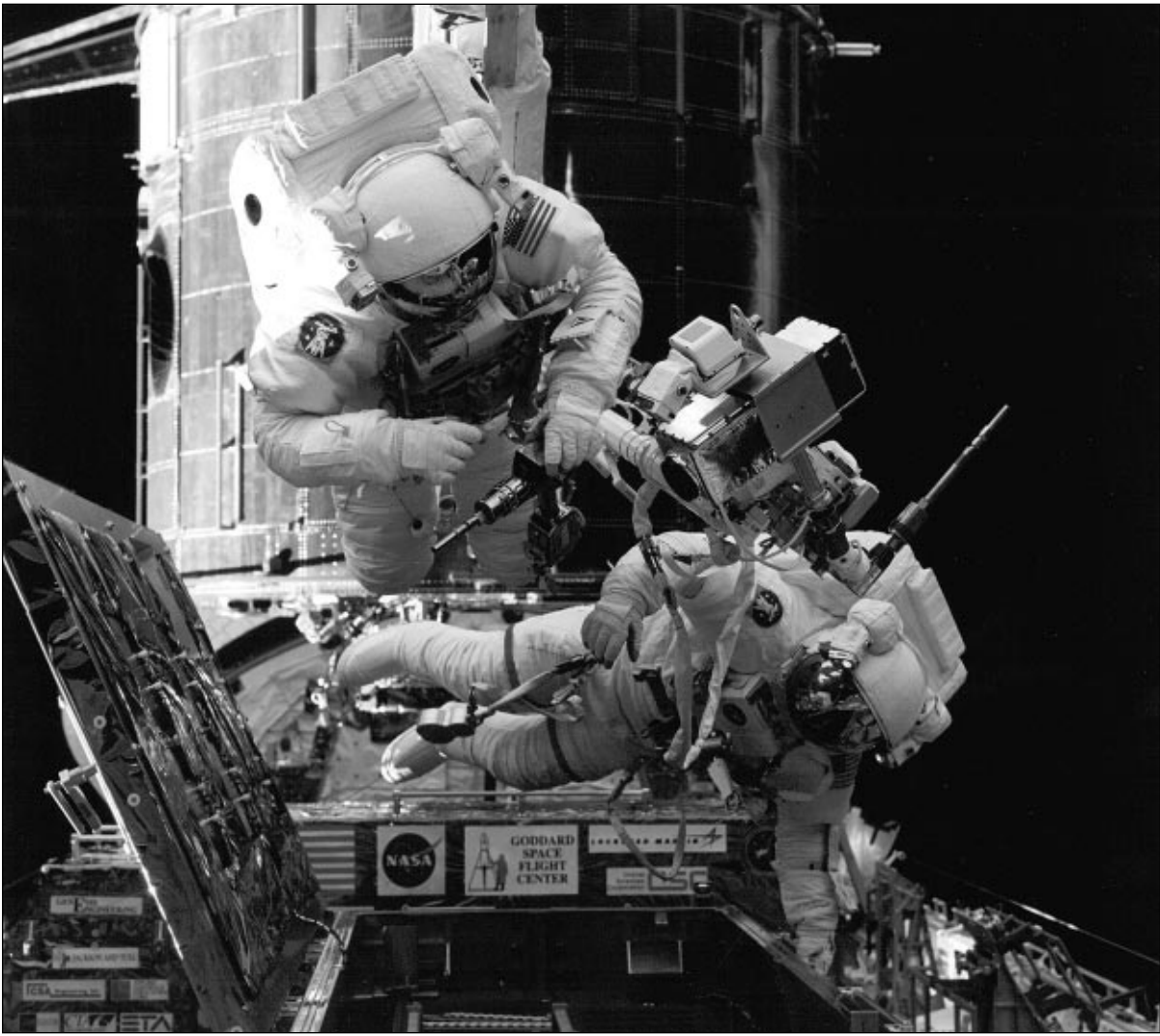


Gearing up with tools for the first extravehicular activity to service the Hubble Space Telescope are from left, Mission Specialist Steve Smith and Payload Commander Mark Lee. They were among four STS-82 crew members who shared several alternating two-member space walking work sessions during the flight. The space walkers removed two older astronomy instruments and installed the Near Infrared Camera and Multi-Object Spectrometer and the Space Telescope Imaging Spectrograph. Hubble also received a refurbished fine guidance sensor, a new pointing device and service to its support systems. →

STS0832-717-026



Hubble Helpers

STS-82 crew successfully capture, repair, deploy orbiting observatory



↑ Mission Specialist Joe Tanner, on *Discovery's* flight deck, checks off completed procedures of the space walkers in the cargo bay. Before the flight, the astronauts practiced every aspect of the mission from rendezvous, retrieval and deployment to try out the more than 150 special tools and crew aids developed for STS-82.

STS082-317-003

Commander Ken Bowersox monitors activities on *Discovery's* flight deck. Bowersox and Scott Horowitz fired small jet thrusters to boost Hubble to a higher attitude for the resumption of astronomical studies. Bowersox congratulated his crew for an outstanding job done to service Hubble. →

STS082-345-005



← Mission Specialist Steve Hawley operates the remote manipulator system arm on the aft flight deck. Hawley used the arm to retrieve the orbiting telescope and place it in *Discovery's* cargo bay. Hawley also was responsible for moving the space walkers, who were attached to the arm, into position for servicing operations and deploying Hubble back into space.

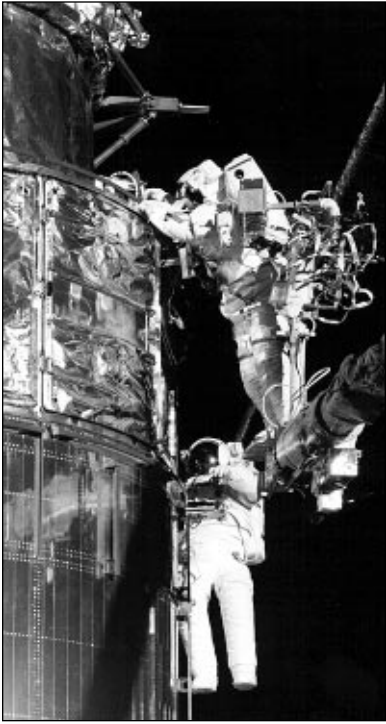
STS082-353-035



↑ Mission Specialist Greg Harbaugh prepares his extravehicular mobility unit space suit for one of two space walks he performed during STS-82. Harbaugh commented during homecoming ceremonies that his space walks were magical moments he will never forget.

STS082-356-001

Mark Lee, top, on the end of the remote manipulator system arm, performs a patch task on the worn insulation material of the Hubble. Steve Smith assists with the patch work during the final space walk. During their final excursion, Lee and Smith attached several thermal insulation blankets to three equipment compartments.



→



← Attired in the extravehicular mobility unit space suit, Mark Lee, in *Discovery's* airlock, prepares for one of five space walks. In all, a total of 33 hours and 11 minutes were logged during the space walks, about two hours shy of the time recorded during the first servicing mission more than three years ago.

STS082-344-019



↑ This wide shot of the Hubble Space Telescope in *Discovery's* cargo bay, backdropped against Australia, was taken during the third STS-82 space walk to service the orbiting observatory. Steve Smith works near the foot restraint of the remote manipulator system.

STS082-310-017



↑ On *Discovery's* mid deck, Pilot Scott Horowitz works on one of the patches to be used by two crew mates on an upcoming space walk to repair worn insulation on the Hubble Space Telescope.

STS082-350-021